Workshop 10: "Steady as She Goes": Mastering Stability in Forensic Toxicology
Date: Tuesday, October 31
Time: 8:00 AM – 12:00 PM
Cost:

MEMBER RATES		
Early Bird Registration June 1 – Aug 31 $150	Late Registration Begins Sept 1 $175	On-site Registration Begins October 11 $200
NON – MEMBER AND DAILY RATES		
Early Bird Registration June 1 – Aug 31 $200	Late Registration Begins Sept 1 $225	On-site Registration Begins October 11 $250

Chairs
Karen S Scott, PhD, F-ABFT
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Abstract
One of the primary challenges in forensic toxicology is ensuring the stability of samples to prevent degradation or alteration of the substances of interest. Instability of analytes can be caused by a variety of factors including chemistry of the analyte itself, the biochemistry of the matrix, storage conditions, and the time between sample collection and analysis. Not all these factors can be controlled by Forensic Toxicologists who are unlikely to be involved during sample collection and transportation to the laboratory.

This workshop aims to provide participants with a comprehensive understanding of the importance of stability in forensic toxicology. Participants will learn about the factors that can affect the stability of drugs and how to control these factors during collection, storage, and analysis of samples.

The workshop will also discuss the different types of stability tests used in forensic toxicology, such as freeze-thaw stability, long-term stability, and processed sample stability. Participants will learn how to interpret the results of stability tests and apply results to the interpretation of toxicological data.

Learning Objectives

1. Learning Objective 1 Understand the importance of stability in forensic toxicology and its impact on the accuracy and reliability of results.
2. Learning Objective 2 Identify the factors that affect stability and how to control them during sample collection, storage, and analysis.

3. Learning Objective 3 Be able to conduct different types of stability tests and interpret the results.

Faculty

Lorna Nisbet, PhD
Senior Lecturer
University of Dundee, Leverhulme Research Center for Forensic Science, Dundee, Scotland

Michael Stypa, M.S., D-ABFT-FT
Forensic Laboratory Supervisor – Toxicology
Las Vegas Metropolitan Police Department, NV, USA

Frank Peters, PhD
Head of Toxicology
University Hospital Jena, Jena, Germany

Dani Mata, MS, D-ABFT
Senior Forensic Scientist - Toxicology
Orange County Crime Lab, CA, USA

Robert Kronstrand, PhD
Associate Professor / Chief toxicologist
National Board of Forensic Medicine, Linköping, Sweden

Michelle Carlin, PhD
Assistant Professor
Rutgers University Camden, Department of Forensic Science, NJ, USA

Audience Knowledge Level

Intermediate - Involves more advanced concepts requiring some technical working knowledge or prior exposure to the subject matter.

Workshop Agenda

Time	Topic	Speaker
8:00-8:10 am	Opening Remarks	Karen Scott
8:10-8:45 am	Overview of Stability	Lorna Nisbet
8:45-9:15 am	Traceability of Standards	Michael Stypa
9:15-10:00 am	Stability of CNS Stimulants	Frank Peters
10:00-10:30 am	Break	
10:30-11:00 am	Stability of CNS Depressants	Dani Mata
11:00-11:30 am	Stability of Opioids	Robert Kronstrand
11:30-12:00 pm	Stability of Cannabinoids	Michelle Carlin